

Having thus, described the invention, what is claimed is:

1. A hydraulic continuously variable transmission, comprising:
  - a hollow transmission housing comprising a base portion and an auxiliary portion for containing a swash plate adjustment mechanism, said auxiliary portion extending upwardly from the base portion of said housing;
  - a swash plate plunger pump and a swash plate plunger motor disposed in said housing and operatively connected to each other through a closed hydraulic circuit;
  - an output shaft rotatably supported on said housing and having an axis of rotation;
  - a movable swash plate, comprising said swash plate plunger pump or said swash plate plunger motor, said movable swash plate being pivotally movable about a pivot shaft extending in a direction perpendicular to the axis of rotation of said output shaft; and
  - a swash plate adjustment mechanism for use in positioning said movable swash plate.
2. The hydraulic continuously variable transmission of claim 1, wherein a servo motor of said swash plate adjustment mechanism is attached to a side surface on a first side of said auxiliary portion, and an identification mark display portion is provided on a second side surface of said auxiliary portion, substantially opposite said first side.
3. The hydraulic continuously variable transmission of claim 1, wherein said motor swash plate comprises said pivotally movable swash plate, and further comprising a motor pivot member for supporting said motor swash plate, and a motor casing for supporting said motor pivot member.

4. The hydraulic continuously variable transmission of claim 3, wherein said motor casing has a concave hemispherical support socket formed therein, and wherein motor pivot member is pivotally supported through sliding contact with said support socket of said motor casing.

5. A hydraulic continuously variable transmission, comprising:

a hollow transmission housing, comprising a base portion and an auxiliary portion for containing a swash plate adjustment mechanism, said auxiliary portion extending upwardly from the base portion of said housing;

a motor casing disposed within said transmission housing;

a motor pivot member supported by said motor casing;

a swash plate plunger pump disposed within said housing and comprising a pump swash plate and a pump cylinder;

a swash plate plunger motor rotatably supported on said motor pivot member and comprising a motor swash plate and a motor cylinder; and

an output shaft extending through and supporting said pump cylinder and said motor cylinder, said output shaft being rotatably supported in said housing through a plurality of rotatable bearings;

wherein said motor swash plate is supported by said motor pivot member so as to be pivotally movable, with a swash plate angle thereof being variably adjustable.

6. The hydraulic continuously variable transmission of claim 5, wherein said motor casing has a concave hemispherical support socket formed therein, and wherein said motor pivot member is supported through sliding contact with said support socket of said motor casing.

7. The hydraulic continuously variable transmission of claim 5, wherein a servo motor of said swash plate adjustment mechanism is attached to a side surface on a first side of said auxiliary portion, and an identification mark display portion is provided on a second side surface of said auxiliary portion, substantially opposite said first side.